

ACKNOWLEDGEMENT RECEIPT

Electronic Version

Stylesheet Version v01

Title of Invention	HARMONIC MIXER BASED TELEVISION TUNER AND METHOD OF PROCESSING A RECEIVED RF SIGNAL																																																																																																																																				
<p>Submission Type : Utility Patent Filing</p> <p>Application Number: 10/707319 </p> <p>EFS ID: 51687</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 30%;">Confirmation Code</th> <th style="width: 70%;">Message</th> </tr> </thead> <tbody> <tr> <td>ISVR1</td> <td>Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application</td> </tr> <tr> <td>ICON1</td> <td>1318</td> </tr> </tbody> </table> <p>First Named Applicant: Tung-Ming Su</p> <p>Attorney Docket Number: REAP0038USA</p> <p>Timestamp: 2003-12-04 22:52:24 EDT</p> <p>From: US</p> <p>File Listing:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 30%;">Doc. Name</th> <th style="width: 40%;">File Name</th> <th style="width: 10%;">Size (Bytes)</th> <th style="width: 20%;">Date Produced (yyyymmdd)</th> </tr> </thead> <tbody> <tr><td>us-request</td><td>REAP0038-4-usreq.xml</td><td>2684</td><td>2003-12-05</td></tr> <tr><td>us-request</td><td>us-request.dtd</td><td>19064</td><td>2003-12-05</td></tr> <tr><td>us-request</td><td>us-request.xsl</td><td>33300</td><td>2003-12-05</td></tr> <tr><td>us-declaration</td><td>REAP0038-4-usdecl.xml</td><td>766</td><td>2003-12-05</td></tr> <tr><td>us-declaration</td><td>us-declaration.dtd</td><td>3833</td><td>2003-12-05</td></tr> <tr><td>us-declaration</td><td>us-declaration.xsl</td><td>10015</td><td>2003-12-05</td></tr> <tr><td>us-fee-sheet</td><td>REAP0038-4-usfees.xml</td><td>2326</td><td>2003-12-05</td></tr> <tr><td>us-fee-sheet</td><td>us-fee-sheet.xsl</td><td>24912</td><td>2003-12-05</td></tr> <tr><td>us-fee-sheet</td><td>us-fee-sheet.dtd</td><td>11069</td><td>2003-12-05</td></tr> <tr><td>us-ids</td><td>REAP0038-4-usidst.xml</td><td>1953</td><td>2003-12-05</td></tr> <tr><td>us-ids</td><td>us-ids.dtd</td><td>7763</td><td>2003-12-05</td></tr> <tr><td>us-ids</td><td>us-ids.xsl</td><td>12026</td><td>2003-12-05</td></tr> <tr><td>us-power-of-attorney-grant</td><td>REAP0038-4-uspoat.xml</td><td>1135</td><td>2003-12-05</td></tr> <tr><td>us-power-of-attorney-grant</td><td>us-power-of-attorney-grant.dtd</td><td>4923</td><td>2003-12-05</td></tr> <tr><td>us-power-of-attorney-grant</td><td>us-power-of-attorney-grant.xsl</td><td>12448</td><td>2003-12-05</td></tr> <tr><td>us-assignment</td><td>REAP0038-4-usassn.xml</td><td>1491</td><td>2003-12-05</td></tr> <tr><td>us-assignment</td><td>us-assignment.xsl</td><td>8983</td><td>2003-12-05</td></tr> <tr><td>us-assignment</td><td>us-assignment.dtd</td><td>10898</td><td>2003-12-05</td></tr> <tr><td>us-assignment</td><td>REAP0038-4ASS1.tif</td><td>61890</td><td>2003-12-05</td></tr> <tr><td>application-body</td><td>REAP0038-4-trans.xml</td><td>24121</td><td>2003-12-05</td></tr> <tr><td>application-body</td><td>us-application-body.xsl</td><td>83497</td><td>2003-12-05</td></tr> <tr><td>application-body</td><td>application-body.dtd</td><td>49498</td><td>2003-12-05</td></tr> <tr><td>application-body</td><td>wipo.ent</td><td>4956</td><td>2003-12-05</td></tr> <tr><td>application-body</td><td>mathml2.dtd</td><td>54588</td><td>2003-12-05</td></tr> <tr><td>application-body</td><td>mathml2-qname-1.mod</td><td>13225</td><td>2003-12-05</td></tr> <tr><td>application-body</td><td>isoamsa.ent</td><td>5191</td><td>2003-12-05</td></tr> <tr><td>application-body</td><td>isoamsb.ent</td><td>3988</td><td>2003-12-05</td></tr> <tr><td>application-body</td><td>isoamsc.ent</td><td>1460</td><td>2003-12-05</td></tr> <tr><td>application-body</td><td>isoamsn.ent</td><td>5620</td><td>2003-12-05</td></tr> <tr><td>application-body</td><td>isoamso.ent</td><td>1934</td><td>2003-12-05</td></tr> </tbody> </table>				Confirmation Code	Message	ISVR1	Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application	ICON1	1318	Doc. Name	File Name	Size (Bytes)	Date Produced (yyyymmdd)	us-request	REAP0038-4-usreq.xml	2684	2003-12-05	us-request	us-request.dtd	19064	2003-12-05	us-request	us-request.xsl	33300	2003-12-05	us-declaration	REAP0038-4-usdecl.xml	766	2003-12-05	us-declaration	us-declaration.dtd	3833	2003-12-05	us-declaration	us-declaration.xsl	10015	2003-12-05	us-fee-sheet	REAP0038-4-usfees.xml	2326	2003-12-05	us-fee-sheet	us-fee-sheet.xsl	24912	2003-12-05	us-fee-sheet	us-fee-sheet.dtd	11069	2003-12-05	us-ids	REAP0038-4-usidst.xml	1953	2003-12-05	us-ids	us-ids.dtd	7763	2003-12-05	us-ids	us-ids.xsl	12026	2003-12-05	us-power-of-attorney-grant	REAP0038-4-uspoat.xml	1135	2003-12-05	us-power-of-attorney-grant	us-power-of-attorney-grant.dtd	4923	2003-12-05	us-power-of-attorney-grant	us-power-of-attorney-grant.xsl	12448	2003-12-05	us-assignment	REAP0038-4-usassn.xml	1491	2003-12-05	us-assignment	us-assignment.xsl	8983	2003-12-05	us-assignment	us-assignment.dtd	10898	2003-12-05	us-assignment	REAP0038-4ASS1.tif	61890	2003-12-05	application-body	REAP0038-4-trans.xml	24121	2003-12-05	application-body	us-application-body.xsl	83497	2003-12-05	application-body	application-body.dtd	49498	2003-12-05	application-body	wipo.ent	4956	2003-12-05	application-body	mathml2.dtd	54588	2003-12-05	application-body	mathml2-qname-1.mod	13225	2003-12-05	application-body	isoamsa.ent	5191	2003-12-05	application-body	isoamsb.ent	3988	2003-12-05	application-body	isoamsc.ent	1460	2003-12-05	application-body	isoamsn.ent	5620	2003-12-05	application-body	isoamso.ent	1934	2003-12-05
Confirmation Code	Message																																																																																																																																				
ISVR1	Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application																																																																																																																																				
ICON1	1318																																																																																																																																				
Doc. Name	File Name	Size (Bytes)	Date Produced (yyyymmdd)																																																																																																																																		
us-request	REAP0038-4-usreq.xml	2684	2003-12-05																																																																																																																																		
us-request	us-request.dtd	19064	2003-12-05																																																																																																																																		
us-request	us-request.xsl	33300	2003-12-05																																																																																																																																		
us-declaration	REAP0038-4-usdecl.xml	766	2003-12-05																																																																																																																																		
us-declaration	us-declaration.dtd	3833	2003-12-05																																																																																																																																		
us-declaration	us-declaration.xsl	10015	2003-12-05																																																																																																																																		
us-fee-sheet	REAP0038-4-usfees.xml	2326	2003-12-05																																																																																																																																		
us-fee-sheet	us-fee-sheet.xsl	24912	2003-12-05																																																																																																																																		
us-fee-sheet	us-fee-sheet.dtd	11069	2003-12-05																																																																																																																																		
us-ids	REAP0038-4-usidst.xml	1953	2003-12-05																																																																																																																																		
us-ids	us-ids.dtd	7763	2003-12-05																																																																																																																																		
us-ids	us-ids.xsl	12026	2003-12-05																																																																																																																																		
us-power-of-attorney-grant	REAP0038-4-uspoat.xml	1135	2003-12-05																																																																																																																																		
us-power-of-attorney-grant	us-power-of-attorney-grant.dtd	4923	2003-12-05																																																																																																																																		
us-power-of-attorney-grant	us-power-of-attorney-grant.xsl	12448	2003-12-05																																																																																																																																		
us-assignment	REAP0038-4-usassn.xml	1491	2003-12-05																																																																																																																																		
us-assignment	us-assignment.xsl	8983	2003-12-05																																																																																																																																		
us-assignment	us-assignment.dtd	10898	2003-12-05																																																																																																																																		
us-assignment	REAP0038-4ASS1.tif	61890	2003-12-05																																																																																																																																		
application-body	REAP0038-4-trans.xml	24121	2003-12-05																																																																																																																																		
application-body	us-application-body.xsl	83497	2003-12-05																																																																																																																																		
application-body	application-body.dtd	49498	2003-12-05																																																																																																																																		
application-body	wipo.ent	4956	2003-12-05																																																																																																																																		
application-body	mathml2.dtd	54588	2003-12-05																																																																																																																																		
application-body	mathml2-qname-1.mod	13225	2003-12-05																																																																																																																																		
application-body	isoamsa.ent	5191	2003-12-05																																																																																																																																		
application-body	isoamsb.ent	3988	2003-12-05																																																																																																																																		
application-body	isoamsc.ent	1460	2003-12-05																																																																																																																																		
application-body	isoamsn.ent	5620	2003-12-05																																																																																																																																		
application-body	isoamso.ent	1934	2003-12-05																																																																																																																																		

Doc. Name	File Name	Size (Bytes)	Date Produced (yyyymmdd)
application-body	isoamsr.ent	7073	2003-12-05
application-body	isogrk3.ent	3559	2003-12-05
application-body	isomfrk.ent	4553	2003-12-05
application-body	isomopf.ent	2571	2003-12-05
application-body	isomscr.ent	4628	2003-12-05
application-body	isotech.ent	5268	2003-12-05
application-body	isobox.ent	3568	2003-12-05
application-body	isocyr1.ent	5345	2003-12-05
application-body	isocyr2.ent	2504	2003-12-05
application-body	isodia.ent	1508	2003-12-05
application-body	isolat1.ent	5282	2003-12-05
application-body	isolat2.ent	9007	2003-12-05
application-body	isonum.ent	5913	2003-12-05
application-body	isopub.ent	6621	2003-12-05
application-body	mmlextra.ent	7901	2003-12-05
application-body	mmalias.ent	38209	2003-12-05
application-body	soextblx.dtd	12870	2003-12-05
application-body	Reap0038usa4-01.tif	9208	2003-12-05
application-body	Reap0038usa4-02.tif	12586	2003-12-05
us-power-of-attorney-grant	REAP0038-4DEC1.tif	48318	2003-12-05
us-declaration	REAP0038-4DEC2.tif	20566	2003-12-05
package-data	REAP0038-4-pkda.xml	9732	2003-12-05
package-data	package-data.dtd	27025	2003-12-05
package-data	us-package-data.xsl	19263	2003-12-05
Total files size			752635

Message Digest:

ca34525b15310b3a114d0c7c7dcabed0cbe3fbea

Digital Certificate Holder
Name:

cn=Winston Hsu,ou=Registered
Attorneys,ou=Patent and
Trademark
Office,ou=Department of
Commerce,o=U.S.
Government,c=US